CONFIDENTIAL

COPY

VIA: AIR

DISPATCH NO. [redacted] 25X1

SECRET

19 August 1955

TO : Chief, WE

FROM : [redacted] 25X1

Request for Plastic and Barrier Paper Specifications.

1. In the near future [redacted] expects to implement a large program utilizing all aspects of the Hot Dip equipment. In order to become well informed and proficient in this field, it is felt that this installation should have at its disposal all information available at Headquarters pertaining to this activity. 25X1

2. With this in mind, it is requested that the following specific information be made available [redacted] as soon as possible: 25X1

(1) Performance, capabilities and limitations of the dark (copper sulphate) and light plastic;

(2) Performance, capabilities and limitations on all barrier paper currently in use or proposed for use by KUBARK:

(3) Performance, capabilities, limitations and any special instructions regarding any caching type containers forwarded for use at this station.

3. It is further requested that Headquarters forward to [redacted] on a continuing basis all information concerning new developments in packing, packaging, and preservation. 25X1

4. Due to the exigency of the situation, it is recommended that information requested in Para. 2 be sent through the APO.

Seen by: [redacted]

[redacted] 008632 25X1 25X1

Distribution:
4 - Chief, WE

DOC 103 REV DATE 1/Jul/80 BY 057447
ORIG COMP 066047 OPI 56 TYPE 10
ORIG CLASS S PAGES 1 REV CLASS C
JUST 22 NEXT REV 2010 AUTH: HR 70-2

SECRET

COPY

CONFIDENTIAL

CONFIDENTIAL

Hot-Dip Testing Program

Pack. 55

1. A series of temperature tests has been run on the "safe" items. Items in their standard packaging or with a foil overwrap to insure a good coating of plastic, but without any extra insulation, have been fitted with iron-constantin thermocouples and the interior package temperature measured at various points. For example, the P-unit was dipped in the tin can without any overwrap with thermocouples at five critical points in the unit, such as the glass disk, matchead, first-fire mix and so on.

2. The P-unit, MK II time pencils and RR Torpedo have passed the cook-off tests and are ready to be dipped for functional, cycle, storage and burial testing. Both the P-unit and time pencils were dipped in an as-are condition; the scrim bag over the RR torpedo box was overwrapped with aluminum foil to avoid bubbles.

3. It was found in cooking-off the A.C. Delay that the celluloid disk becomes tacky and dissolves at 225°F, after being left in the dip for twenty (20) minutes. The napalm was removed from a PTI and the case interior flushed with gasoline followed by water. It "blew" during the cook-off test at 295°F, after being immersed for thirty-five (35) minutes. The explanation is that gasoline vapors exuded from the celluloid case upon heating and ignited when the temperature inside got high enough.

4. Work is now concentrated in setting up the equipment for the field cook-off tests with the more dangerous items. Before cooking off any explosives, small quantities will be placed in an oven and the temperature at which they go noted.

5. In order to keep busy and to stay withing the time limit of the contract, [redacted] intends to dip all the items needed in the functional, cycle, storage and burial program by the end of September, even though all the cook-off testing is not complete. The slow rate of heat transfer to the packages indicate that there is no item which is dangerous in normal dipping practice. If the question of safety is in doubt, no dipping will occur until preliminary testing shows that the item is safe to dip. 25X1

25X1

[redacted]

:mm

008632

25X1

DOC 105 REV DATE 1 July 80 BY 057447
ORIG COMP 056 OPI 56 TYPE 30
ORIG CLASS S PAGES 1 REV CLASS C
JUST 22 NEXT REV 2010 AUTH: HR 70-2

SECRET CONFIDENTIAL